

DHER-EC 10 20 30 40 50 60 70 80 90 100
 MISLIAALAVDRVIGMENAMPWNLADLAWFKRNTLDKPVIMGRHTWESIGRPLGRKNIILSSQPGTDDRVTWVKSVDIAACGDVPEIMVIGGRVY
 1122211 1122112211111 111112112212112 112111

EQFLPKAQKLYLTHIDAEEVGDTHFPDYEPPDDWESVSEFHDADAQNSHSYCFKILERR
 111211 110 120 130 140 150 159

TRYP 10 20 30 40 50 60 70 80 90 100
 IVGGYTCGANTVPYQVSLNSGYHFCGGLINSQWVVSAAHCYKSGIQVRLGEDNINVVEGNEQFISASKSIVHPSYNSNTLNNDIMLIKLSAASLSRV
 11111 11111

ASISLPTSCASAGTQCLISGWGNTKSSGTSYDPDLKCLKAPILSDSSCKSAYPGQITSNMFCAGYLEGGKDSQGDGSGPVVCSGKLGQIVSWGSGCAQK
 111111111 11111 11111 1122221121111 1190 190 200

NKPGVYTKVCNVVSWIKQTIASN
 122221 210 220

RNAS 10 20 30 40 50 60 70 80 90 100
 KETAAAKFERQHMDSSSTAASSSNYCNQMMKSRNLTCKDRCKPVNTFVHESLADVQAVCSQKNVACKNGQTNCYQSYSTMSITDCRETGSSKYPNCAYKTT
 11111111221 2122211 111121

QANKHIIIVACEGNPYVPVHFDAV
 1111111 11222211 110 120 124

MYGL 10 20 30 40 50 60 70 80 90 100
 VLSEGEWQLVLHVWAKVEADVAGHGQDILIRLFKSHPETLEKFDREKHLKTEAEMKASEDLKKHGVTVLTALGAILKKKGHHEALPLAQSHATKHKIP
 111111 111211221211 111211221121111 111111221 12121

IKYLEFISEAIIHVLHSRHPGDFGADAQAGAMNKALELFRKDI AAKYKELGYQG
 11222121111 110 120 130 140 150 111121111111

Fig. 2

DHFR-HM	10	20	30	40	50	60	70
DHFR-EC	3	9	24	38	40		57
	VGSLNCIVAVSQNMGIGKNGDLPWPPLRNEFRYFQRM	LPADLAWFKRNTLDK			VIMGRHTWESIGRPLPGR		
	SLIAALA						
DHFR-HM	80	90	100	110	120	130	140
DHFR-EC							
	INLVL	SRELKEPPQGAHFLSRSLDDALKLTEQPELAN	KVDMVWIVGGSSVYKEAMNHPGHLKLFVTRIMQ				
					MVIGGG		
					92	97	
DHFR-HM	150	160	170	180	186		
DHFR-EC							
	DFESDTFFPEIDLEKYKLLPEYPGVLSDVQBEKGIKYKFEVYEKND						